



(43) International Publication Date 4 January 2001 (04.01.2001)

PCT

(10) Internati nal Publication Number WO 01/00682 A1

(51) International Patent Classification⁷: A61K 31/715

C08B 37/00,

- (21) International Application Number: PCT/US00/18180
- (22) International Filing Date: 30 June 2000 (30.06.2000)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/142,031

30 June 1999 (30.06.1999) US

- (71) Applicant (for all designated States except US): PHAR-MAGENESIS, INC. [US/US]; 3183 Porter Drive, Palo Alto, CA 94304 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AN, Jinhua [CN/US]; 2460 W. Bayshore Road #4, Palo Alto, CA 94303 (US). LEU, Karen, S. [US/US]; 12961 Brandywine Drive, Saratoga, CA 94303 (US). LENNOX, Edwin, S. [US/US]; 735 Mayfield Avenue, Stanford, CA 94305 (US). MUSSER, John, H. [US/US]; 23 Michael Court, San Carlos, CA 94070 (US).
- (74) Agents: KURZ, Walter et al.; Heller Ehrman White & McAuliffe LLP, 525 University Avenue, Palo Alto, CA 94301-1900 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

V

(54) Title: HEMATOPOIETIC ARABINOGALACTAN COMPOSITION

(57) Abstract: Purified arabinogalactan compositions isolated from Astragalus membranaceus, especially from the roots of Astragalus membranaceus, and arabinogalactan protein compositions having a weight average molecular weight of at least 100 kiloDaltons isolated from these purified arabinogalactan compositions, are capable of reconstitution into aqueous intravenously injectable formulations; and are useful for stimulating hematopoiesis; inducing the proliferation or maturation of megakaryocytes, stimulating the production of IL-1 β , IL-6, TNF- α , IFN- γ , GM-CSF, or G-CSF, stimulating the production or action of neutrophils, treating neutropenia, anemia, or thrombocytopenia, accelerating recovery from exposure (e.g. accidental or non-therapeutic exposure, as well as therapeutic exposure) to cytotoxic agents or radiation, treating cachexia, emesis, or drug withdrawal symptoms, or modifying biological responses or protecting hepatic cells in hepatitis B, in a mammal when intravenously administered to the mammal.